

10/542031

Rec'd PCT/PTO 13 JUL'2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 July 2004 (29.07.2004)

PCT

(10) International Publication Number
WO 2004/064447 A1

(51) International Patent Classification⁷: **H04R 1/28, 3/04**

(21) International Application Number:

PCT/AU2004/000040

(22) International Filing Date: 13 January 2004 (13.01.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2003900164

15 January 2003 (15.01.2003)

AU

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

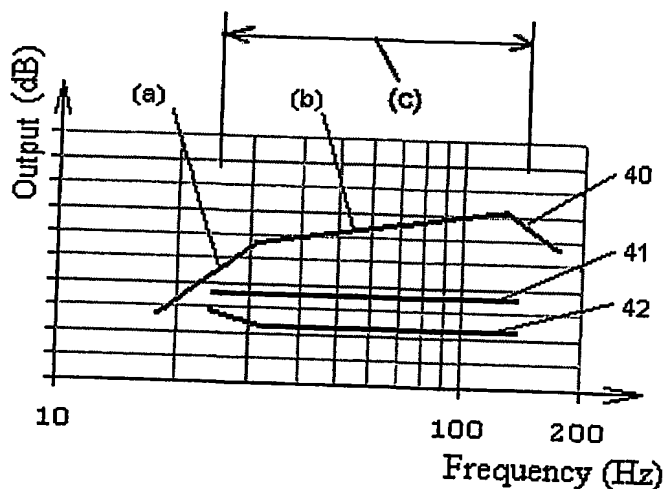
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- with amended claims and statement

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **LOUDSPEAKER SYSTEM WITH EXTENDED OUTPUT AND FIELD CANCELLATION**



(57) **Abstract:** A loudspeaker system suitable for a confined space includes an electro-acoustic transducer and an enclosure for the electro-acoustic transducer. The enclosure combines a second order topology to produce a rising acoustic response (40) for the system at a second order rate and a helmholtz resonator adapted to modify the rate of rise of the response relative to the second order rate such that the response is attenuated relative to the second order rate but is accentuated relative to a flat response, within a substantial part of a passband of the system at least at a selected frequency or frequencies. The system has means included in an electrical path driving the electro-acoustic transducer for equalizing the rising response to provide extended dynamic headroom at least at the selected frequency or frequencies.

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